

Abstract of the Disclosure**Comparing the Position of Shared Objects**

The present invention provides a computer network configured to
5 define and update data structures within a shared computer-generated
environment, wherein a local instantiation **1001** of one of said data
structures is known as a duplicate master **805** and updates remote
instantiations **1004** of said data structure known as duplicas **804** according
to distance-based Position History-Based Dead Reckoning **906**. Said
10 updating operation **906** according to distance-based PHBDR minimises the
amount of data **1402** transmitted for the purpose thereof and the quality
factor **1601** implemented according to an improved embodiment of the
present invention dynamically maximises (**1501**, **1502**, **1503**) the usage
made of the network bandwidth **702** available at any time.

(Figure 14)